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## Fig.24a

CDR3  CDR3  NYCAY  HYGLY  HYGLY  HOGGTTVTVSS x4 1 (SEQ ID NO. 214)  CAI THEFAY  HOGGTTVTVSS x3 1 (SEQ ID NO. 216)  CAR URGDY  HOGGTTVTVSS x3 1 (SEQ ID NO. 216)  CAR URGDY  HOGGTTVTVSS x3 1 (SEQ ID NO. 218)  CAR DYCY  HOGGTTVTVSS 1 (SEQ ID NO. 218)  CAR DYCY  HOGGTTVTVSS 1 (SEQ ID NO. 219)  CAR DYCH  HOGGTTVTVSS 1 (SEQ ID NO. 220)  CAR DYCH  HOGGTTVTVSS 1 (SEQ ID NO. 220)	CAR   DYCOT   HCCCTTVTVSS   1   (SEQ ID NO. 222)
KATLTADKSSSTAMQLSSLTSEDSAVTY C KATLTADKSSSTAMQLSSLTEEDBAVTY C KATLTYDKBSSTAMGLSLTSEDBAVY I KATLTYDKBSSTAMGELUSLTSEDBAVY I GLS I SKDHSKSOVFLKRGISLGTDDTAMY I KATLTADKSSSTAMGLGBLTSEDSAVY I EATLTYDKSSTAMGLGBLTSEDSAVY I KATLTYDKSSTAMGLGSLTSEDSAVYY I	KATHTVOKSSSTAMHCLARLTEEDGAIYTCAR KATLTADKSSSTAMHCLSSLTSEDBAVYTCAR KATLTADKSSSTAMHCLSSLTBEDSAVYTCAR KATLTADKSSSTAMHCLGSLTBEDGAVYTCAR KATLTADKSSSTAMHCLGSLTBEDGAVYTCAR KATLTADKSSSTAMHCLGSLTEEDGAVYTCAR KATLTADKSSSTAMHCLGELTEEDGAVYTCAR KATLTADKSSSTAMHCLGELTEEDGAVYTCAR KATLTADKSSSTAMHCLGSLTSEDSAVYTCAR KATLTADKSSSTAMHCLSSLTSEDSAVYTCAR KATLTADKSSSTAMHCLSSLTSEDSAVYTCAR KATLTADKSSSTAMHCLSSCTSEDSAVYTCAR KATLTADKSSSTAMHCLSSCTSEDSAVYTCAR KATLTADKSSSTAMHCLSSCTSEDSAVYTCAR KATLTADKSSSTAMHCLSSCTSEDSAVYTCAR
COA2  TIMPSECTTITNOKFKD  TIMPTHOGTKTHEKKO  RIMPTHOOTFTHOKFKO  VIHAGGSTHTHISALHS  YIMPSTCTTETHOKFKO  TIMPSTCTTETHOKFKO  TIMPSTCTTTHOKFKO  TIMPSTCTTTHOKFKO	VIETRICITINDAKKO YINPSECTTINIDAKKO YINPSTCTTTNOKKO YINPSTCTTTNOKKO YINPSECTTNOKKO
HVKQRDGGCLEWIG HVKQRDGGCLEWIG HVKQRDGGCLEWIG HVKQSIIGKSLEWIG HVKQRPGGCLEWIG HVKQRPGGCLEWIG HVKQRPGGCLEWIG HVKQRPGGCLEWIG HVKQBIIGKSLEWIG	H WYKQSQSKSLEMIG H WYXQRPCQCLEMIG H WYXQRPCQCLEMIG H WYXQRPCQOLEMIG H WYQRPCQOLEMIG H WYQRPCQCLEMIG H WYQRPQQCLEMIG H WYQRPQQCLEMIG H WYQRPQQCLEMIG
CDRI STTPO RDWPG STVP STCV STLP RTLP	STADOI RITTOI RDMOI HITTOI HITTOI BTTOI STADOI STADOI STADOI STADOI STADOI STADOI STADOI STADOI STADOI
from combinatorial library:  A OVOLOGOAELANPGASYXHSCKASOTITT B OVLLOGSOAELAKPOASYXHSCKASOTITT C OVOLOGSOPELYXPOASYXHSCKASGTTT C OVOLOGSOPELYXPOASYXHSCKASGTTT C OVOLOGSOPELYXPOSSUSITCTVAGOFELT C OVXLOGSOPELYXPOASYXHSCKASGTTT C OVXLOGSOAELYNPCASYXISCKASGTTT C OVXLOGSOAELYNPCASYXISCKASGTTT	II M hiererchical library Vil-rep x Vk-d:  OVKLOGSCAELARPCASVXHSCKASCTITT  OVKLOGSCAELARPCASVXHSCKASCTITT  OVKLOGSCAELARPCASVXHSCKASCTITT  OVCLOGSCAELARPCASVXHSCKASCTITT  OVCLOGSCAELARPCASVASCCKASCTITT  OVCLOGSCAELARPCASVASCCKASCTITT  OVCLOGSCAELARPCASVASCCKASCTITT  OVCLOGSCAELARPCASVASCCKASCTITT  OVCLOGSCAELARPCASVASCCCASCTITT  OVCLOGSCAELARPCASVASCCCASCTITT  OVCLOGSCAELARPCASVASCCCASCTITT  OVCLOGSCAELARPCASVASCCCASCTITT  OVCLOGSCAELARPCASVASCCCASCTITT  OVCLOGSCAELARPCASVASCCCASCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCCASCCTITT  OVCLOGSCAELARPCASVASCCASCCTITT  OVCLOGSCAELARPCASVASCCASCCATITT  OVCLOGSCATITT  OVCLOGSCAELARPCASVASCCASCCATITT  OVCLOGSCAELARPCASVASCCASC
	CDRI  WYRORDCOCLEMIC TIMPSTCTTETHORKEND KATLTADKSSSTAMPOLSSLTSEDSAVTYCAN ATGAY  RDWOI WYRORDCOCLEMIC TIMPSTCTTETHORKEND KATLTADKSSSTAMPOLSSLTSEDSAVTYCAN HYGLY  RDWOI WYRORDCOCLEMIC TIMPSTCTTETHORKEND KATLTADKSSSTAMPOLSSLTSEDSAVTYCAN HYGLY  STYNON WYRORDCOCLEMIC TIMPSTCTTETHORKEND KATLTYDKSSSTAMPOLSSLTSEDSAVTYCAN HYGOTY HOCGTTYTYSS X3 1 (SEQ 1D NO CITMP WOCGTTYTYSS X3 1 (SEQ 1D NO STCW)  STYNON WYRORDCOCLEMIC TIMPSTCATTETHORKEND KATLTYDKSSSTAMPOLSSLTSEDSAVTYCAN HYGOTYTYTYSS X3 1 (SEQ 1D NO STCW)  STLMON WYRORDCOCLEMIC TIMPSTCATTETHORKEND KATLTYDRSSSTAMPOLSSLTSEDSAVTYCAN DYGOTY HOCGTTYTYSS X3 1 (SEQ 1D NO STCW)  STLMON WYRORDCOCLEMIC TIMPSTCATTETHORKEND KATLTYDRSSSTAMPOLSSLTSEDSAVTYCAN DYGOT HYCOTTYTYSS X3 1 (SEQ 1D NO STCM)  STLMON WYRORDCOCLEMIC TIMPSTCATTETHORKEND KATLTYDRSSSTAMPOLSSLTSEDSAVTYCAT DYGND HCGCTTYTYSS 1 (SEQ 1D NO STCM)  RITHON WYRORDCOCLEMIC TIMPSTCATTETHORKEND KATLTYDRSSSTAMPOLSSLTSEDSAVTYCAT DYGND HCGCTTYTYSS 1 (SEQ 1D NO SEQ 1D NO STCM)  RITHON WYRORDCOCLEMIC TIMPSTCATTETHORKEND KATLTYDRSSSTAMPOLSSLTSEDSAVTYCAT DYGND HCGCTTYTYSS 1 (SEQ 1D NO SEQ 1D NO SEC 1D NO



## Fig.24b

V<sub>K</sub> sequences

DIELTOSPSSLSASLCERVSUTC RASGEI  DIELTOSPAINSASPCEKVTHTC SASSSS  DIELTOSPAINSASPCEKVTHTC SASSSSI  DIELTOSPAINSASPCEKTHTTC SASSSSI  DIELTOSPATTMAASPCEKITHTC SASSSI  DIELTOSPATHAASPCEKITHTC SASSSI	CDRI RASGEISCTLS RASSSVEESTLH SASSSIESNTLH SASSSVENTHOI SASSSVENTHOI SASSSVENTHOI SASSSVENTHOI SASSSVENTHOI SASSSVENTHOI SASSSVENTHOI SASSSVENTHOI SASSSISSNTLH	MLOGKPDGSIKALIY WYOGKSGASPKWHIY WYOGKPGFSPKLLIY	COR2 AASTLES OTSFLAS RTSNLAS RTSNLAS STSNLAS OTSKLAS STSNLAS RTSNLAS	OVPKIJF SC SRSGSDYSLTIS SLESEDFADYYC  OVPARFSGSGGGESYSLTIS SVEREDAATYYC  OVPARFSGSGSGTSYSLTIGTHEAEDVATYTC  CVPARFSGSGSGTSYSLTIGTHEAEDVATYTC  CVPARFSGSGSGTSYSLTIS PHEAEDAATYYC  CVPARFSGSGSTSYSLTIS SNEAEDAATYYC  CVPARFSGSGSTSYSLTIS SNEAEDAATYYC  CVPARFSGSGSTSYSLTIS SNEAEDAATYYC  CVPARFSGSGSTSYSLTIS SNEAEDAATYYC  CVPARFSGSGSTSYSLTIGTHEAEDAATYYC  CVPARFSGSGSTSYSLTIGTHEAEDVATYYC  CVPARFSGSGSTSYSLTIGTHEAEDVATYYC  CVPARFSGSGSGTSYSLTIGTHEAEDVATYYC  CVPARFSGSGGTSYSLTIGTHEAEDVATYYC  CVPARFSGSGGTSYSLTIGTHEAEDVATYYC  CVPARFSGSGGTSYSLTIGTHEAEDVATYYC  CVPARFSGSGGTSYSLTIGTHEAEDVATYYC  CVPARFSGSGGTSYSLTIGSBEREDVATYYC  CVPARFS	CDA3 LOTASTPT COTSTPLT COCSTIPPT COC	FGACTKLEIKIN XJ FGACTKLEIKIN XJ FGACTKLEIKIN XJ FGSOTKLEIKIN X4 FGACTKLEIKIN X4 FGACTKLEIKIN X4 FGACTKLEIKIN X4 FGACTKLEIKIN X4 FGACTKLEIKIN X4 FGACTKLEIKIN XA		0x.11ke	(SEQ ID NO. 236) (SEQ ID NO. 237) (SEQ ID NO. 238) (SEQ ID NO. 239) (SEQ ID NO. 240) (SEQ ID NO. 241) (SEQ ID NO. 242) (SEQ ID NO. 243) (SEQ ID NO. 245) (SEQ ID NO. 246) (SEQ ID NO. 246)	
DIELTOSPAINSA EPCEKVTLTC DIELTOSPAINSA EPCEKVTHTC DIELTOSPAINSA SPCEKVTHTC DIELTOSPAINSA SPCEKVTHTC DIELTOSPAINSA SPCEKVTHTC DIELTOSPAINSA SPCEKVTHTC DIELTOSPAINSA SPCEKVTHTC DIELTOSPAINSA SPCEKVTHTC	GASSSVRTVN GASSSVS TV01 RAGSSVTS 97LH RASGSVSGSTLH RASSSVSGSTLH RASSSSVSGSTLH RASSSSSSVV	HOUREDISPANTI HYOOKEGASPELHY HYOOKSGASPELHY HYOOKEGASPELHIY HYOOKEGASPELHIY HYOOKEGASPELHIY	3 2 2 2 2 2 2 3	COPARTICOCCOTSTELTISSECAEDAATTYC CVPARFSCEGSCTSTSLTISEVEAEDAATTYC CVPARFSCSCEGTSTSLTISEVEAEDAATTYC CVPARFSCSCEGTSTSLTISEVEAEDAATTYC CVPARFSCSCGSTSTSLTISSVEAEDAATTYC CVPARFSCSCGSCTSTSLTISSVEAEDAATTYC	OCHSTNALT OCHSSYPLT OCHSSYPLT OCHSSYPLT OCHSSYPLT OCHSSYPLT	FGACTILLIKRA FGACTILLIKRA FGACTILLIKRA FGACTILLIKRA FGCOTILLIKRA FGCOTILLIKRA	10/01	VKOKJ OX-11ke OX-11ke OX-11ke	(SEQ ID NO. 253) (SEQ ID NO. 254) (SEQ ID NO. 255) (SEQ ID NO. 256) (SEQ ID NO. 257) (SEQ ID NO. 258)	